

REMARKS

Claims 21, 22, 25-31 and 34-40 are pending in this application. By this Amendment, claim 21 is amended to recite the subject matter of claims 23 and 24; claim 30 is amended to recite the subject matter of claims 32 and 33; and claims 23, 24, 32 and 33 are canceled without prejudice to, or disclaimer of, the subject matter recited therein. Support for the amendments to claims 21 and 30 can be found at least in original claims 23, 24, 32, 33 and in the specification, for example, at paragraphs [0023]-[0027]. No new matter is added.

Claims 21, 22, 27-31 and 36-40 are rejected under 35 U.S.C. §103(a) over Kustermann (U.S. Patent No. 6,248,174) in view of Griech et al. (U.S. Patent No. 6,521,089); claims 23-25, 28, 32-34 and 37 are rejected under 35 U.S.C. §103(a) over Kustermann in view of Griech and further in view of Belotserkovsky (U.S. Patent No. 6,183,561); claims 21-24, 26-34 and 36-40 are rejected under 35 U.S.C. §103(a) over Belotserkovsky in view of Griech and in further view of Kustermann; and claims 26 and 35 are rejected under 35 U.S.C. §103(a) over either Kustermann and Griech, or Belotserkovsky and Workman (U.S. Patent No. 6,452,679). The rejection of canceled claims 23, 24, 32 and 33 is moot and the rejections of claims 21, 22, 25-31 and 34-40 are respectfully traversed.

Kustermann, Griech, Belotserkovsky and Workman, alone or in a permissible combination, do not teach or render obvious every claimed feature of independent claims 21 and 30. Kustermann, Griech, Belotserkovsky and Workman do not teach or render obvious "measuring a chemical composition of a coating to be transferred to the paper web by determining at least one of an amount of at least one component in the coating to be transferred to the paper web and a ratio of two or more components in the coating to be transferred to the paper web," as recited in independent claim 1, and as similarly recited in independent claim 30.

The Office Action acknowledges that Kustermann does not disclose the above feature (see Office Action, page 3). The Office Action relies on Griech for disclosure of the above feature (see Office Action, page 3).

However, Griech merely relates to measuring a component of the paper web via a basis weight sensor 7 and measuring a composition of a coating to be transferred to the paper web via a concentration sensor 10 (see col. 5, lines 8-16 of Griech). The basis weight sensor 7 measures the total basis weight of the finished paper web, not a component of the paper web (see col. 5, lines 8-16 of Griech). The basis weight sensor measures only the total weight per area of the finished paper web, and is incapable of differentiating between the amounts of various components of the paper web (see Abstract; col. 7, line 31-col. 8, line 67; and col. 5, lines 8-16 of Griech).

Further, the concentration sensor 10 of Griech merely measures the amount of filler and fines in the white water or tail water (see Abstract; col. 7, line 31-col. 8, line 67; and col. 5, lines 8-16 of Griech). The concentration sensor 10 of Griech is incapable of measuring a composition of a coating to be transferred to the paper web.

Generally, the device and process of Griech focuses on controlling the weight or ash content of the paper web by relating the operation of the headbox or wire section of the paper machine (see Abstract; col. 7, line 31-col. 8, line 67; and col. 5, lines 8-16 of Griech). The coating of the paper web occurs only after the paper web formation and drying processes (see Abstract; col. 7, line 31-col. 8, line 67; and col. 5, lines 8-16 of Griech). Therefore, the device and process of Griech are irrelevant to determining features of the coating of the paper web, as recited in independent claims 21 and 30.

Belotserkovsky and Workman do not remedy the above-described deficiencies of Griech.

Further, none of the above-applied references teach "wherein the first measuring device is arranged to measure the amount of the at least one component of the coating on the paper web by a reflection measurement, and wherein the first measuring device arranged to measure the amount of the at least one component of the coating on the paper web by the reflection measurement is based on an infrared technique," as recited in independent claim 21 and as similarly recited in independent claim 30.

The Office Action asserts that Kustermann discloses the above feature at col. 5, lines 9-12 and col. 5, lines 36-59 (see Office Action, page 4). However, similar to Griech, these passages of Kustermann merely relate to measuring the entire coating, and not a component thereof (see col. 5, lines 9-12 and col. 5, lines 36-59 of Kustermann, describing volume and flow measuring sensors that measure the entire coating rather than an individual component of the coating). Therefore, Kustermann does not teach measuring the amount of at least one component of the coating to be transferred to the paper web, as recited in independent claims 21 and 30.

Therefore, for at least these reasons, independent claims 21 and 30 are patentable over the above-applied references. Claims 22, 25-29, 31 and 34-40, which variously depend from independent claims 21 and 30, are also patentable for at least their dependency on independent claims 21 and 30, as well as for the additional features they recite. Applicant thus respectfully requests withdrawal of the rejections.

In view of the foregoing, it is respectfully submitted that this application is in condition for allowance. Favorable reconsideration and prompt allowance are earnestly solicited.

Should the Examiner believe that anything further would be desirable in order to place this application in even better condition for allowance, the Examiner is invited to contact the undersigned at the telephone number set forth below.

Respectfully submitted,



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Date: December 29, 2008
Attachment: Petition for Extension of Time

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